

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2016 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including DWR Erosion Survey**

***San Joaquin River Basin***

<b>RD2107</b>	Overall LMA Rating	Total LMA Miles						
<b>Reclamation District No. 2107</b>								
<b>Mossdale Island</b>	<b>A</b>	<b>4.15</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation					0.01			
Encroachments	0.02		0.02	0.48%	0.01			
Slope Stability	0.01		0.01	0.24%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.12	0.01		
<i>LMA Totals:</i>	0.03	0.00	0.03	0.72%	0.14	0.01	0.00	0.00
<b>Unit No. 01 San Joaquin River LB</b>	Overall Unit Rating	Total Unit Miles						
<b>RD2107</b>	<b>A</b>	<b>2.33</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation					0.01			
Encroachments	0.01		0.01	0.43%	0.01			
<i>Supplemental</i>								
DWR UCIP Field Study					0.10			
<i>Unit Totals:</i>	0.01	0.00	0.01	0.43%	0.12	0.00	0.00	0.00
<b>Unit No. 02 Paradise Cut RB</b>	Overall Unit Rating	Total Unit Miles						
<b>RD2107</b>	<b>A</b>	<b>1.82</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Encroachments	0.01		0.01	0.55%				
Slope Stability	0.01		0.01	0.55%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.02	0.01		
<i>Unit Totals:</i>	0.02	0.00	0.02	1.10%	0.02	0.01	0.00	0.00

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2016 Levee Inspection Results**

**Reclamation District No. 2107 Mossdale Island**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			A	

\*\* Non-receipt of Summer or Winter Inspection  
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2016 Levee Inspection Results**

**Reclamation District No. 2107 Mossdale Island**

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Left	2.33
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	3/16/2016 - 3/16/2016		10/5/2016 - 10/5/2016	
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk	
Accompanied By	Robert Brown RD2107		Robert Brown RD2107	

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2107 Mossdale Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	10/05/2016 10/05/2016	Maksim Khashchuk

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD2107_01_s_2013_5				
Comment Code					
Inspector Comment					
The LMA has flood fight training and an emergency response plan.					

No Photos

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD2107_01_s_2013_7				
Comment Code					
Inspector Comment					
Flood fighting supplies are available on-site.					

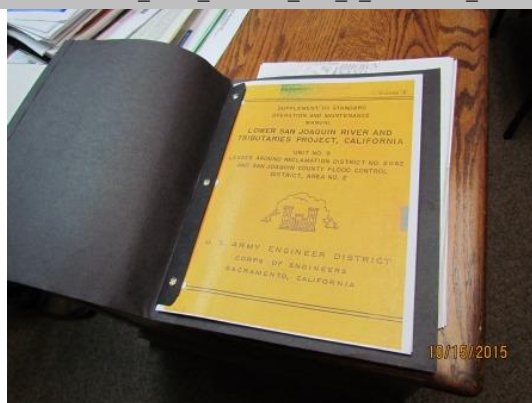
Photo 1 of 1 : FA\_2016\_RD2107\_329\_7\_20160914\_00003.jpg



View of the flood fight emergency supplies.

LM Start		Rating **	A	Issue No.	8
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD2107_01_s_2013_8				
Comment Code					
Inspector Comment					
The O&M Manual is available at the LMA's office.					

Photo 1 of 1 : FA\_2016\_RD2107\_329\_8\_20160914\_00004.jpg



View of the O&amp;M Manual.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2107 Mossdale Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	10/05/2016 10/05/2016	Maksim Khashchuk

LM Start	0.03	Rating **	N	Issue No.	1
LM End	0.03	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.786993 °	37.786993 °
				-121.308694 °	-121.308694 °
DWR ID	DWR_RD2107_01_s_2012_1				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_RD2107\_329\_1\_20160914\_00001.jpg



Photo of waterside slope. Stumps present from prior tree removal for access and visibility.

LM Start	0.23	Rating **	M	Issue No.	58
LM End	0.23	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.784586 °	37.784586 °
				-121.306837 °	-121.306837 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:16187					
DS_ID:23107					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: No permit identified. Erosion exposed pipes on LS.					
FIELD_STRUCT_DESC: 3-inch PVC conduit 1-foot below the road surface within roadway fill over levee crown.					
FS Date: 5/22/2013					

Photo 1 of 1 : UCIP\_FA\_2016\_16187\_27294.jpg



Pipes visible on LS next to roadway.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2107 Mossdale Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	10/05/2016 10/05/2016	Maksim Khashchuk

LM Start	0.23	Rating **	M	Issue No.	66
LM End	0.23	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.784586 °	37.784586 °
				-121.306837 °	-121.306837 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:15175 DS_ID:23108 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified. Erosion exposed pipes on LS. FIELD_STRUCT_DESC: 8-inch steel conduit 1-foot below the road surface within roadway fill over levee crown. Visible on Upstream side of bridge. FS Date: 5/22/2013					

Photo 1 of 1 : UCIP\_FA\_2016\_15175\_24922.jpg



Pipes visible on LS next to roadway.

LM Start	0.23	Rating **	M	Issue No.	64
LM End	0.23	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.784586 °	37.784586 °
				-121.306837 °	-121.306837 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:15173 DS_ID:23109 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. Erosion exposed pipes on LS. FIELD_STRUCT_DESC: 1.5-inch PVC conduit 1-foot below the road surface within roadway fill over levee crown. FS Date: 5/22/2013					

Photo 1 of 2 : UCIP\_FA\_2016\_15173\_24918.jpg



Pipes visible on LS next to roadway.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2107 Mossdale Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	10/05/2016 10/05/2016	Maksim Khashchuk

LM Start	0.23	Rating **	M	Issue No.	64 (cont)
LM End	0.23	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.784586 °	37.784586 °
				-121.306837 °	-121.306837 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:15173 DS_ID:23109 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. Erosion exposed pipes on LS. FIELD_STRUCT_DESC: 1.5-inch PVC conduit 1-foot below the road surface within roadway fill over levee crown. FS Date: 5/22/2013					

Photo 2 of 2 : UCIP\_FA\_2016\_15173\_24917.jpg



Pipes visible on LS next to roadway.

LM Start	0.23	Rating **	M	Issue No.	65
LM End	0.23	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.784586 °	37.784586 °
				-121.306837 °	-121.306837 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:15174 DS_ID:23110 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. FIELD_STRUCT_DESC: 1.5-inch PVC conduit 1-foot below the road surface within roadway fill over levee crown. FS Date: 5/22/2013					

Photo 1 of 2 : UCIP\_FA\_2016\_15174\_24920.jpg



Enter photo 1 description or comment here.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2107 Mossdale Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	10/05/2016 10/05/2016	Maksim Khashchuk

LM Start	0.23	Rating **	M	Issue No.	65 (cont)	
LM End	0.23	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.784586 °		37.784586 °
				-121.306837 °		-121.306837 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:15174						
DS_ID:23110						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: No permit identified for this crossing.						
FIELD_STRUCT_DESC: 1.5-inch PVC conduit 1-foot below the road surface within roadway fill over levee crown.						
FS Date: 5/22/2013						

Photo 2 of 2 : UCIP\_FA\_2016\_15174\_24921.jpg



Pipes visible on LS next to roadway.

LM Start	0.25	Rating **	M	Issue No.	18
LM End	0.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.784372 °	37.784372 °
				-121.306647 °	-121.306647 °
DWR ID	DWR_RD2107_01_f_2016_18				
Comment Code					
GA : Garbage					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_RD2107\_329\_18\_20161006\_00027.jpg



View of the garbage on the landside levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2107 Mossdale Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	10/05/2016 10/05/2016	Maksim Khashchuk

LM Start	0.26	Rating **	C	Issue No.	2
LM End	0.26	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.784316 °	37.784316 °
				-121.306498 °	-121.306498 °
DWR ID	DWR_RD2107_01_s_2012_2				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
LMA removed the stumps.					

No Photos

LM Start	0.26	Rating **	A/W	Issue No.	19
LM End	0.26	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.784300 °	37.784300 °
				-121.306488 °	-121.306488 °
DWR ID	DWR_RD2107_01_f_2015_19				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_RD2107\_329\_19\_20160914\_00006.jpg



View of the tracks on the waterside levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2107 Mossdale Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	10/05/2016 10/05/2016	Maksim Khashchuk

LM Start	0.27	Rating **	M	Issue No.	59
LM End	0.27	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.784194 °	37.784194 °
				-121.306353 °	-121.306353 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:16188 DS_ID:19055 EP_NO: 12101B Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and should be done so properly. FIELD_STRUCT_DESC: 4" electrical conduit through the levee 2.5 feet below the crown. Distribution panel on a 5-foot by 6-foot concrete pad on the WS shoulder (Permit No 12101B, 1979). FS Date: 5/21/2013					

Photo 1 of 1 : UCIP\_FA\_2016\_16188\_27296.jpg



5X5 concrete pad with exposed electrical conduit on WS shoulder.

LM Start	0.29	Rating **	C	Issue No.	22
LM End	0.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.783998 °	37.783998 °
				-121.306134 °	-121.306134 °
DWR ID	DWR_RD2107_01_s_2016_22				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
LMA removed stumps.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2107 Mossdale Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	10/05/2016 10/05/2016	Maksim Khashchuk

LM Start	0.32	Rating **	M	Issue No.	20
LM End	0.32	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.783649 °	37.783649 °
				-121.305710 °	-121.305710 °
DWR ID	DWR_RD2107_01_f_2015_20				
Comment Code					
BU : Building					
Inspector Comment					
Building in the floodway may impede flood flows.					

Photo 1 of 1 : FA\_2016\_RD2107\_329\_20\_20160914\_00007.jpg



View of the building in the floodway.

LM Start	0.36	Rating **	C	Issue No.	23
LM End	0.36	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.783222 °	37.783222 °
				-121.305125 °	-121.305125 °
DWR ID	DWR_RD2107_01_s_2016_23				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
LMA removed stumps.					

No Photos

LM Start	0.41	Rating **	A/W	Issue No.	54
LM End	0.41	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.782737 °	37.782737 °
				-121.304426 °	-121.304426 °
DWR ID	DWR_RD2107_01_s_2012_54				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Large elderberry on water side slope. Plant is more than 20ft down the slope.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2107 Mossdale Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	10/05/2016 10/05/2016	Maksim Khashchuk

LM Start	0.68	Rating **	M	Issue No.	63
LM End	0.68	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.779486 °	37.779486 °
				-121.301961 °	-121.301961 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:13684 DS_ID:19036 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Wooden walkway to pump on platform is in disrepair and may be a hazard. FIELD_STRUCT_DESC: 1 of 2: 14-inch pipe through the levee 17.0 feet below the crown. Pump on pile structure in the stream. Walkway to pump. Slide gate in 48-inch CMP riser on WS shoulder. 36-inch concrete standpipe at the landward toe. Service pole and circuit panel on landward toe. Originally included in O&M manual, 1964. FS Date: 5/21/2013					

LM Start	<b>0.68</b>	Rating **	M	Issue No.	<b>63 (cont)</b>
LM End	<b>0.68</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_FA\_2016\_13684\_22411.jpg



Pier and 48-inch CMP riser on WS shoulder

Photo 2 of 2 : UCIP\_FA\_2016\_13684\_22410.jpg



Walkway to pump on pier at WS.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2107 Mossdale Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	10/05/2016 10/05/2016	Maksim Khashchuk

LM Start	0.70	Rating **	M	Issue No.	60
LM End	0.70	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.779209 °	37.779209 °
				-121.301973 °	-121.301973 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:13883					
DS_ID:19039					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Slide gate missing actuator inside 55-inch CMP riser.					
FIELD_STRUCT_DESC: 14-inch pipe through the levee, 15.0 feet					
below the crown. Pipe likely runs from 36-inch concrete standpipe on					
LS to outlet on WS toe. Portion of the discharge line from the pump at					
Levee Mile 0.68. 55-inch CMP riser with slide gate on LS shoulder.					
Originally included in O&M manual, 1964.					
FS Date: 5/21/2013					

LM Start	<b>0.70</b>	Rating **	M	Issue No.	<b>60 (cont)</b>
LM End	<b>0.70</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_FA\_2016\_13883\_22821.jpg



36-inch concrete standpipe on LS toe.

Photo 2 of 2 : UCIP\_FA\_2016\_13883\_22822.jpg



55-inch CMP riser with slide gate (no handle) on LS shoulder. 14-inch and 12-inch pipe visible on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2107 Mossdale Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	10/05/2016 10/05/2016	Maksim Khashchuk

LM Start	0.75	Rating **	A/W	Issue No.	24
LM End	0.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.778824 °	37.778824 °
				-121.302813 °	-121.302813 °
DWR ID	DWR_RD2107_01_s_2016_24				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
LMA repaired erosion site.					

No Photos

LM Start	1.23	Rating **	M	Issue No.	17
LM End	1.23	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.774123 °	37.774123 °
				-121.307189 °	-121.307189 °
DWR ID	DWR_RD2107_01_s_2012_17				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Landscaping and fence present on levee slope.					

Photo 1 of 1 : FA\_2016\_RD2107\_329\_17\_20160914\_00005.jpg



View of landscape planting on landside levee slope and a 3-ft yard fence at the levee toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2107 Mossdale Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	10/05/2016 10/05/2016	Maksim Khashchuk

LM Start	1.45	Rating **	M	Issue No.	62
LM End	1.45	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.771939 °	37.771939 °
				-121.305063 °	-121.305063 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:13667 DS_ID:19031 EP_NO: 12790 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Verify with electricity provider that electric service is overhead and not through the levee. FIELD_STRUCT_DESC: 1 of 3: Possible underground electrical conduit through the levee at unknown depth. Overhead power line on site likely installed instead of underground. (Permit No. 12790, 1981). FS Date: 5/21/2013					

No Photos

LM Start	1.47	Rating **	M	Issue No.	61	
LM End	1.47	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.771735 °	37.771735 °	
				-121.304847 °	-121.304847 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:13650						
DS_ID:19040						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: No pump. Appears abandoned. Large hole under pipe on WS slope from animal activity.						
FIELD_STRUCT_DESC: 1 of 2: 18-inch PVC irrigation pipe through the levee 2.5 feet below the crown. Pump on pile structure in the stream.						
Walkway to the pump. Originally included O&M manual, 1964.						
FS Date: 5/21/2013						

Photo 1 of 2 : UCIP\_FA\_2016\_13650\_22341.jpg



Pumping plant on metal pier on WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2107 Mossdale Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	10/05/2016 10/05/2016	Maksim Khashchuk

LM Start	1.47	Rating **	M	Issue No.	61 (cont)	
LM End	1.47	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.771735 °	37.771735 °	
				-121.304847 °	-121.304847 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:13650 DS_ID:19040 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No pump. Appears abandoned. Large hole under pipe on WS slope from animal activity. FIELD_STRUCT_DESC: 1 of 2: 18-inch PVC irrigation pipe through the levee 2.5 feet below the crown. Pump on pile structure in the stream. Walkway to the pump. Originally included O&M manual, 1964. FS Date: 5/21/2013						

Photo 2 of 2 : UCIP\_FA\_2016\_13650\_22340.jpg



Large hole under pipe on WS slope.

LM Start	1.47	Rating **	M	Issue No.	67
LM End	1.47	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.771735 °	37.771735 °
				-121.304847 °	-121.304847 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:15179 DS_ID:23106 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe open on WS toe at the pump on pier. Pipe abandoned and should be done so properly. FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee 2.5 feet below the crown. Pump on pile structure in the stream. Walkway to the pump. FS Date: 5/21/2013					

Photo 1 of 2 : UCIP\_FA\_2016\_15179\_24935.jpg



Metal pier on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2107 Mossdale Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	10/05/2016 10/05/2016	Maksim Khashchuk

LM Start	1.47	Rating **	M	Issue No.	67 (cont)	
LM End	1.47	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.771735 °	37.771735 °	
				-121.304847 °	-121.304847 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:15179 DS_ID:23106 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe open on WS toe at the pump on pier. Pipe abandoned and should be done so properly. FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee 2.5 feet below the crown. Pump on pile structure in the stream. Walkway to the pump. FS Date: 5/21/2013						

Photo 2 of 2 : UCIP\_FA\_2016\_15179\_24934.jpg



Pipe visible under metal walkway on WS slope.

LM Start	1.57	Rating **	C	Issue No.	21
LM End	1.74	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.770316 °	37.768295 °
				-121.304816 °	-121.306454 °
DWR ID	DWR_RD2107_01_f_2016_21				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
LMA repaired levee toe cut by disking activity.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2016 Levee Inspection Results**

**Reclamation District No. 2107 Mossdale Island**

Waterway			Bank	Unit Miles
Unit No. 02 Paradise Cut			Right	1.82
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	3/16/2016 - 3/16/2016		10/5/2016 - 10/5/2016	
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk	
Accompanied By	Robert Brown		Robert Brown RD2107	

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2107 Mossdale Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	1.82	10/05/2016 10/05/2016	Maksim Khashchuk

LM Start	0.21	Rating **	M	Issue No.	8	
LM End	0.21	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			37.761881 °		37.761881 °
				-121.312850 °		-121.312850 °
DWR ID	DWR_RD2107_02_f _ 2016_8					
Comment Code						
PR : Prunings						
Inspector Comment						

Photo 1 of 1 : FA\_2016\_RD2107\_330\_8\_20161006\_00012.jpg



View of the prunings of the waterside levee slope.

LM Start	0.27	Rating **	M	Issue No.	12
LM End	0.27	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.762613 °	37.762613 °
				-121.313480 °	-121.313480 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:13637 DS_ID:19057 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe filled in with soil around outlet and not visible on LS. Appears abandoned and should be done so properly. FIELD_STRUCT_DESC: *ABANDONED* 16-inch steel storm drain pipe 16-feet below the crown with slide gate on WS toe. Originally included in O&M manual, 1964. FS Date: 5/21/2013					

Photo 1 of 2 : UCIP\_FA\_2016\_13637\_22299.jpg



Slide gate visible on WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2107 Mossdale Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	1.82	10/05/2016 10/05/2016	Maksim Khashchuk

LM Start	0.27	Rating **	M	Issue No.	12 (cont)	
LM End	0.27	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.762613 °	37.762613 °	
				-121.313480 °	-121.313480 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:13637						
DS_ID:19057						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pipe filled in with soil around outlet and not visible on						
LS. Appears abandoned and should be done so properly.						
FIELD_STRUCT_DESC: *ABANDONED* 16-inch steel storm drain pipe						
16-feet below the crown with slide gate on WS toe. Originally included						
in O&M manual, 1964.						
FS Date: 5/21/2013						

Photo 2 of 2 : UCIP\_FA\_2016\_13637\_22298.jpg



Slide gate visible on WS toe.

LM Start	0.51	Rating **	A/W	Issue No.	4
LM End	0.51	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.764780 °	37.764780 °
				-121.316717 °	-121.316717 °
DWR ID	DWR_RD2107_02_s_2012_4				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberry bush on waterside. Shrub is more than 20ft down the slope.					

Photo 1 of 1 : FA\_2016\_RD2107\_330\_4\_20160914\_00001.jpg



Elderberry located on waterside slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2107 Mossdale Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	1.82	10/05/2016 10/05/2016	Maksim Khashchuk

LM Start	0.54	Rating **	M	Issue No.	9
LM End	0.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.764838 °	37.764838 °
				-121.317318 °	-121.317318 °
DWR ID	DWR_RD2107_02_f_2015_9				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Add appropriate fill and compact the slope.					

Photo 1 of 1 : FA\_2016\_RD2107\_330\_9\_20160914\_00002.jpg



View of the vertical cut on the landside levee slope.

LM Start	0.54	Rating **	M	Issue No.	11
LM End	0.54	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.764832 °	37.764832 °
				-121.317405 °	-121.317405 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:13636					
DS_ID:19058					
EP_NO: 13161					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Some erosion along pipe alignment on WS slope.					
FIELD_STRUCT_DESC: 10-inch steel storm drain pipe through the					
levee 5-feet below the crown. Pump located on 36-inch concrete					
standpipe at LS toe. A PVC pipe runs parallel to waterward toe to train					
tracks. Air relief valve on waterward shoulder (Permit No. 13161, 1981).					
FS Date: 5/21/2013					

Photo 1 of 2 : UCIP\_FA\_2016\_13636\_22296.jpg



Erosion along pipe alignment on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2107 Mossdale Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	1.82	10/05/2016 10/05/2016	Maksim Khashchuk

LM Start	0.54	Rating **	M	Issue No.	11 (cont)	
LM End	0.54	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.764832 °	37.764832 °	
				-121.317405 °	-121.317405 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:13636 DS_ID:19058 EP_NO: 13161 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Some erosion along pipe alignment on WS slope. FIELD_STRUCT_DESC: 10-inch steel storm drain pipe through the levee 5-feet below the crown. Pump located on 36-inch concrete standpipe at LS toe. A PVC pipe runs parallel to waterward toe to train tracks. Air relief valve on waterward shoulder (Permit No. 13161, 1981). FS Date: 5/21/2013						

Photo 2 of 2 : UCIP\_FA\_2016\_13636\_22295.jpg



Pipe at outlet.

LM Start	1.32	Rating **	C	Issue No.	10
LM End	1.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.772432 °	37.772432 °
				-121.327275 °	-121.327275 °
DWR ID	DWR_RD2107_02_s_2016_10				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2107 Mossdale Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	1.82	10/05/2016 10/05/2016	Maksim Khashchuk

LM Start	1.51	Rating **	U	Issue No.	13
LM End	1.51	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.774130 °	37.774130 °
				-121.329896 °	-121.329896 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50762  
DS\_ID:19056  
EP\_NO: 2966  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 11/16/2016 Visible hole through pipe visible on WS end. Sink hole present at the LS ditch. Evidence of pipe repair visible on LS (see photos) however, no permit was found to document the work. Need to contact owner to determine permit authorizing work. Due to the hole in the pipe recommend internal inspection of the pipe through the levee to determine pipe integrity. (O. Magana - DWR UCIP)05/22/2013 Headwall around pipe at LS toe is failing and should be shored up. Flap gate propped open and should be returned to normal function. (W. Wylie - DWR UCIP)  
FIELD\_STRUCT\_DESC: 24-inch steel drain pipe through the levee 14 feet below the crown. Flap gate installed on the waterward end of the pipe and two standard reinforced concrete cutoff walls were placed around the pipe in line with the levee shoulders (Permit No. 2966, 1958 - Dell'Osso Brothers).  
FS Date: 11/17/2016 10:50:00 AM

LM Start	<b>1.51</b>	Rating **	U	Issue No.	<b>13 (cont)</b>
LM End	<b>1.51</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_FA\_2016\_50762\_22441.jpg



Pipe visible on WS toe with Flap gate open.

Photo 2 of 2 : UCIP\_FA\_2016\_50762\_22440.jpg



Pipes visible under foliage on WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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